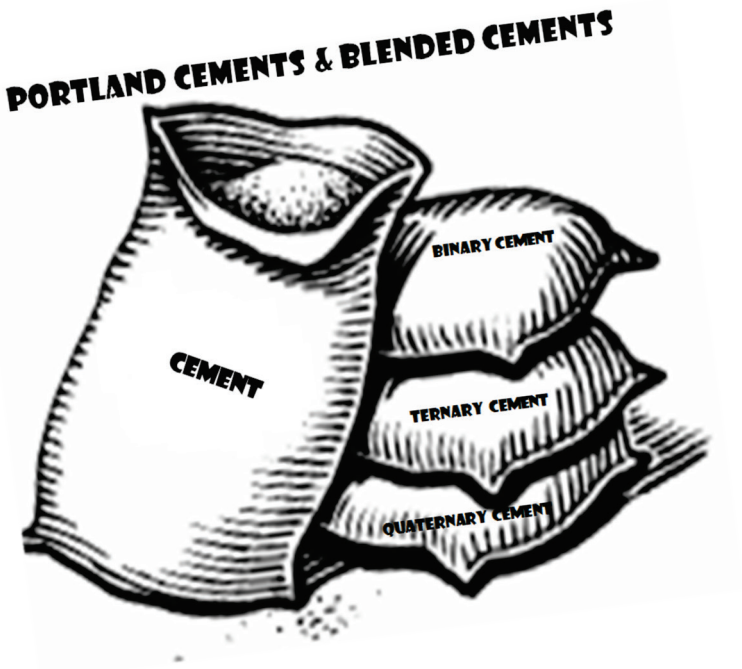
Cements Reciprocity Agreement Update



Lieska Halsey - Nebraska DOR

National Concrete Consortium
April 23, 2014
Reno, Nevada

TimeLine

Cement Plant Acceptance Approval Source Agreement

2000 Partnership Midwest Concrete Consortium

2014

Agreement established

- Lieska Halsey (Nebraska)
- Todd Hanson (Iowa)
- John Staton (Michigan)
- Dave Suchorski (Ash Grove)
- Lori Tiefenthaler (Lehigh Cement)
- Tom Cackler (CP Tech Center)
- Maria Masten (Minnesota)
- John Melander (SCA)
- Paul Tennis (PCA)
- Thomas Grisinger (Lehigh Cement)

Revised By Task Force Committee

Reciprocity Agreement Purpose

National Concrete Consortium (NCC) Cement Reciprocity Agreement to help unify State Department of Transportation with the Initial Acceptance of Portland and Blended Cements.

The intent is to have uniform Department of Transportation procedure *to ensure consistency of cement plant acceptance approval source.*

Agreement Benefits

- Uniformity between states for initial cement acceptance
- Uniformity for cement manufacturer's on cement approval for each individual states
- Department of Transportation testing reduction for initial cement testing acceptance

Agreement Update

1 Standardization Update

- This agreement will not replace an individual state's acceptance requirements from individual projects.
- Host State performing acceptance testing shall be accredited through the AASHTO Accreditation program.

2 Requirements

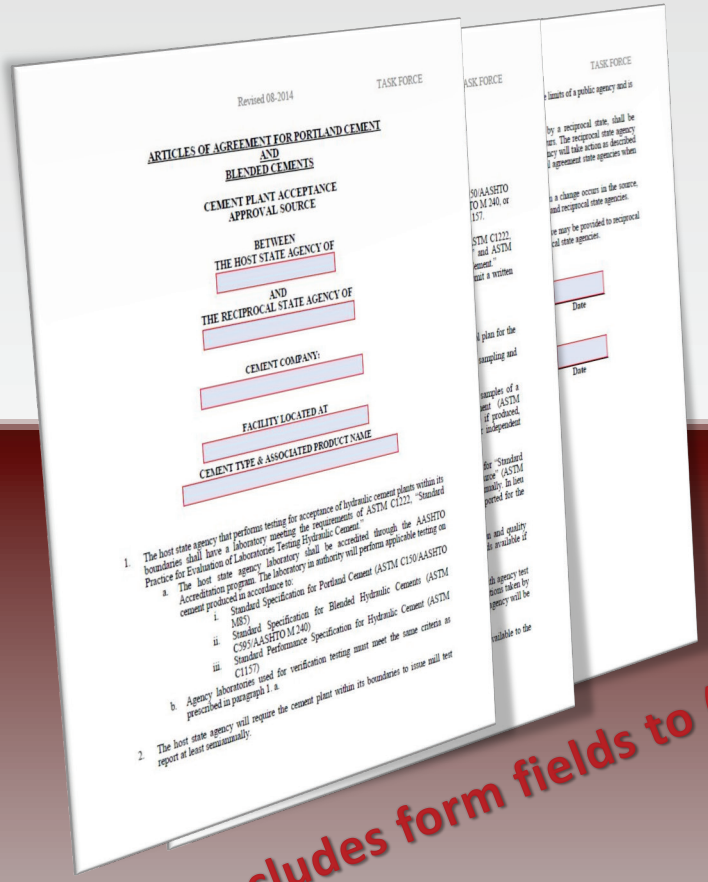
- The host state agency will require the cement producer to submit mill test reports, perform split sample testing semiannually, and maintain quality control records.

3 Participating States Agreement

- Agreement will be review every 5 years or when a change occurs in the source, type, or brand name of cement by either the host state or the reciprocal state.

Revised Agreement

http://www.cptechcenter.org/ncc/



Revised 08-2014

TASK FORCE

ARTICLES OF AGREEMENT FOR PORTLAND CEMENT
AND
BLENDED CEMENTS

CEMENT PLANT ACCEPTANCE
APPROVAL SOURCE

BETWEEN
THE HOST STATE AGENCY OF

AND
THE RECIPROCAL STATE AGENCY OF

CEMENT COMPANY:

FACILITY LOCATED AT

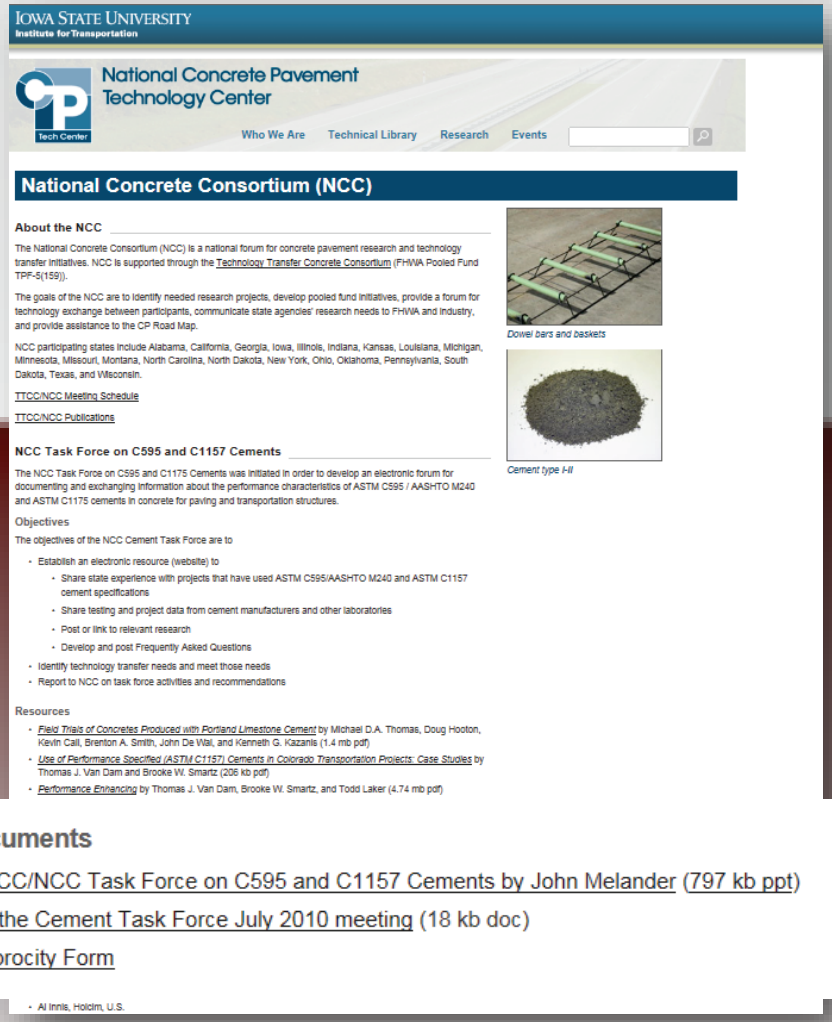
CEMENT TYPE & ASSOCIATED PRODUCT NAME

1. The host state agency that performs testing for acceptance of hydraulic cement plants within its boundaries shall have a laboratory meeting the requirements of ASTM C1222, "Standard Practice for Evaluation of Laboratories Testing Hydraulic Cement."
   a. The host state agency laboratory shall be accredited through the AASHTO Accreditation program. The laboratory in authority will perform applicable testing on cement produced in accordance to:
      i. Standard Specification for Portland Cement (ASTM C150/AASHTO M85)
      ii. Standard Specification for Blended Hydraulic Cements (ASTM C595/AASHTO M 240)
      iii. Standard Performance Specification for Hydraulic Cement (ASTM C1157)
   b. Agency laboratories used for verification testing must meet the same criteria as prescribed in paragraph 1. a.
2. The host state agency will require the cement plant within its boundaries to issue mill test report at least semiannually:

Date

Date

PDF Form includes form fields to (Fill & Sign)



IOWA STATE UNIVERSITY
Institute for Transportation

National Concrete Pavement Technology Center

Tech Center

Who We Are | Technical Library | Research | Events

National Concrete Consortium (NCC)

About the NCC

The National Concrete Consortium (NCC) is a national forum for concrete pavement research and technology transfer initiatives. NCC is supported through the Technology Transfer Concrete Consortium (FHWA Pooled Fund TPF-5(159)).

The goals of the NCC are to identify needed research projects, develop pooled fund initiatives, provide a forum for technology exchange between participants, communicate state agencies' research needs to FHWA and industry, and provide assistance to the CP Road Map.

NCC participating states include Alabama, California, Georgia, Iowa, Illinois, Indiana, Kansas, Louisiana, Michigan, Minnesota, Missouri, Montana, North Carolina, North Dakota, New York, Ohio, Oklahoma, Pennsylvania, South Dakota, Texas, and Wisconsin.

TTCC/NCC Meeting Schedule

TTCC/NCC Publications

Dowel bars and baskets

Cement type I-II

NCC Task Force on C595 and C1157 Cements

The NCC Task Force on C595 and C1175 Cements was initiated in order to develop an electronic forum for documenting and exchanging information about the performance characteristics of ASTM C595 / AASHTO M240 and ASTM C1175 cements in concrete for paving and transportation structures.

Objectives

The objectives of the NCC Cement Task Force are to

- Establish an electronic resource (website) to
  - Share state experience with projects that have used ASTM C595/AASHTO M240 and ASTM C1157 cement specifications
  - Share testing and project data from cement manufacturers and other laboratories
  - Post or link to relevant research
  - Develop and post Frequently Asked Questions
- Identify technology transfer needs and meet those needs
- Report to NCC on task force activities and recommendations

Resources

- *Field Trials of Concretes Produced with Portland Limestone Cement* by Michael D.A. Thomas, Doug Hooton, Kevin Cail, Brenton A. Smith, John De Wal, and Kenneth G. Kazanis (1.4 mb pdf)
- *Use of Performance Specified (ASTM C1157) Cements in Colorado Transportation Projects: Case Studies* by Thomas J. Van Dam and Brooke W. Smartz (206 kb pdf)
- *Performance Enhancing* by Thomas J. Van Dam, Brooke W. Smartz, and Todd Laker (4.74 mb pdf)

Task Force Documents

- Report for TTCC/NCC Task Force on C595 and C1157 Cements by John Melander (797 kb ppt)
- Minutes from the Cement Task Force July 2010 meeting (18 kb doc)
- Cement Reciprocity Form

- Al Innis, Holcim, U.S.

Participating States Reciprocity Agreement

- Michigan- Host State
  - Wisconsin and Minnesota
- Nebraska- Host State
  - Iowa and Minnesota

- Minnesota – Participating State
  Utilizes Michigan, Iowa, Missouri and Nebraska test results

Louisville, NE